

Ben Stirling

Computer Engineering Student
UC San Diego

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INTRODUCTION

Hi there! My name is Ben Stirling and I am a passionate computer engineer with 5+ years of hands-on experience building functional and robust robots. I am a team player who is humble and loves to learn while reflecting team values.

EDUCATIONAL BACKGROUND

UC San Diego

Major: Computer Engineering

Graduation: Spring 2024

Skills: PCB Design, EE linear and non-linear analysis, Algorithm Analysis, CPU Design

Palomar College

GPA: 4.0

Focus on lower-division coursework

PROFICIENCIES

- **Software Engineering**
 - Git and Github
 - C++ (Advanced Data Structures)
 - Python (Networked 3D Printers)
- **Electrical Engineering**
 - Linear Circuit Analysis
 - Non-Linear Circuit Analysis
 - Reading Datasheets
 - KiCAD for 2-layer PCB Design
 - SMD/THT Design and Assembly
 - Pick and Place Operation
- **Mechanical Engineering**
 - Computer Aided Design
 - Computer Aided Manufacturing
 - MIG/TIG Welding
 - 3D Printing
 - Laser Cutting

EXPERIENCE

Team Captain, Design Lead

First Robotics Competition Team 6995 NOMAD

October 2017 – April 2021

Founded a community robotics team. The team has impacted over 100 students in California, and has been extremely successful with its strong team culture. The team won the most competitive Regional in the world and competed at the World Championship in Houston.

CEO

Autoprint Inc.

October 2020 – August 2021

Autoprint Inc. is a startup pushing the boundaries for desktop 3D printers. While the CEO, Autoprint filled for a patent for its proprietary printing processes and launched a Kickstarter which raised over \$13K in a few weeks.

CFO

DeepWater Exploration Inc.

October 2021 – September 2022

DeepWater Exploration Inc. creates accessible and simple marine robotics systems. As the CFO, bookkeeping and all financial aspects are responsibilities. Helped develop a pitch, business plan, and financial projections.

Intern

Qualcomm Institute Maker Space

July 2022 – Present

Helped hundreds of engineering and arts students build and manufacture projects. Worked with all types of machining (additive and subtractive) and maintained and learned dozens of machines within a year. Offers Pick and Place machine to maker space users.

ACHIEVEMENTS

- Eagle Scout
- Earned all 137 Merit Badges in Boy Scouts of America*
- California Industrial Design Award in First Robotics
- San Diego Regional 2019 Winner in First Robotics
- Qualcomm Innovation Award Winner in First Robotics
- Filed 2 patents within a year**

*0.0003% of Boy Scouts have achieved all the Merit Badges

**First was provisional, second is US 63334108